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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/650,553 08/28/2003 Mark E. Mang D/A2053 7592 04/11/2005 **EXAMINER** 25453 7590 PATENT DOCUMENTATION CENTER GOODROW, JOHN L XEROX CORPORATION 100 CLINTON AVE., SOUTH, XEROX SQUARE, 20TH FLOOR **ART UNIT** PAPER NUMBER ROCHESTER, NY 14644 1756

DATE MAILED: 04/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	W 110
Office Action Summary	10/650,553	MANG ET AL.	
	Examiner	Art Unit	
	John L. Goodrow	1756	
The MAILING DATE of this communication		<u> </u>	SS
Period for Reply		•	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, and the period for reply is specified above, the maximum statutory perestiment to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the maximum patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a r reply within the statutory minimum of thir riod will apply and will expire SIX (6) MON atute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on			
	This action is non-final.		
3) Since this application is in condition for allo		ters, prosecution as to the me	rits is
closed in accordance with the practice unde			
Disposition of Claims			
4)⊠ Claim(s) <u>1-38</u> is/are pending in the applicat	ion	·	
4a) Of the above claim(s) is/are without			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-38</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner		
10) ☐ The drawing(s) filed on is/are: a) ☐ a		by the Everiner	
Applicant may not request that any objection to t		•	,
Replacement drawing sheet(s) including the con			121(4)
11) The oath or declaration is objected to by the			` '
•	·		02 .
Priority under 35 U.S.C. § 119		-	a -
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority documents of the priority documents.	ents have been received.		
3.☐ Copies of the certified copies of the p			ie
application from the International Bur			, -
* See the attached detailed Office action for a I	list of the certified copies not	received.	
Attachment(s)			
) Notice of References Cited (PTO-892)	4) 🛄 Interview S	Summary (PTO-413)	
) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/6	Paper No(s	summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)	

Art Unit: 1756

DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 2, 9, 11 rejected under 35 U.S.C. 112, second paragraph, as being 2. indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim s 9 & 11 recites the broad recitation softening point and Tg such as 95-140, and the claim also recites 110-125 which is the narrower statement of the range/limitation. Claim 3 does not state what a low molecular weight is.

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Claim Rejections - 35 USC § 102

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5, 13-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Mahabadi et al (5,229,242). Mahabadi et al teaches a toner composition of resin, pigment particles, wax particles and a compatibilizer. Applicants have a aromatic hydrocarbon compatibilizer however Mahabadi teaches Col 7 lines 45-Col. 8 line 15 that the compatibilizer can be a styrene block graft polymer. Suitable resins as the binder are taught in Col.5 such as styrene/methacrylate with a first and second resin note Col.6 lines 20-30. Pigments such as carbon black and colorants of magenta cyan or yellow are shown Col. 6 lines 35-65. Low molecular weight, for example from about 1000 to about 20,000, waxes are taught in Col. 7 lines 25-40. The toner can be used in known electrophotographic methods with carriers both coated and non-coated ferrites note Col. 9 lines 10-35.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hikosaka et al in view of Mahabadi et al. Hikosaka et al teaches a binder resin for a toner with specific components that improve the fixability and the grindability of the toner in its production. The resin can be a isopropenyltoluene and indene as taught Col. 4 line 29-35 and again Col. 6 line 55-Col.7 line 7. Hikosaka et al does not other resin binder components or carriers used in an electrophotographic process. Mahabadi et al as noted above teaches resin and carriers used in the toner developer. It would be obvious to one of ordinary skill in the art at the time of applicants' invention with a reasonable expectation of success to use the known binders and carriers in a developer with the specific resin composition of Hikosaka et al in improving the pulverizing of the toner in the preparation of the toner particle.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John L. Goodrow whose telephone number is 571-272-1384. The examiner can normally be reached on Monday -Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F. Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John L Goodfow

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Primary Examiner

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